

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P646894

Luminaire Tested: **GALN-SA4C-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12038.6 lumens  
Efficiency: N/A  
Efficacy: 56.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

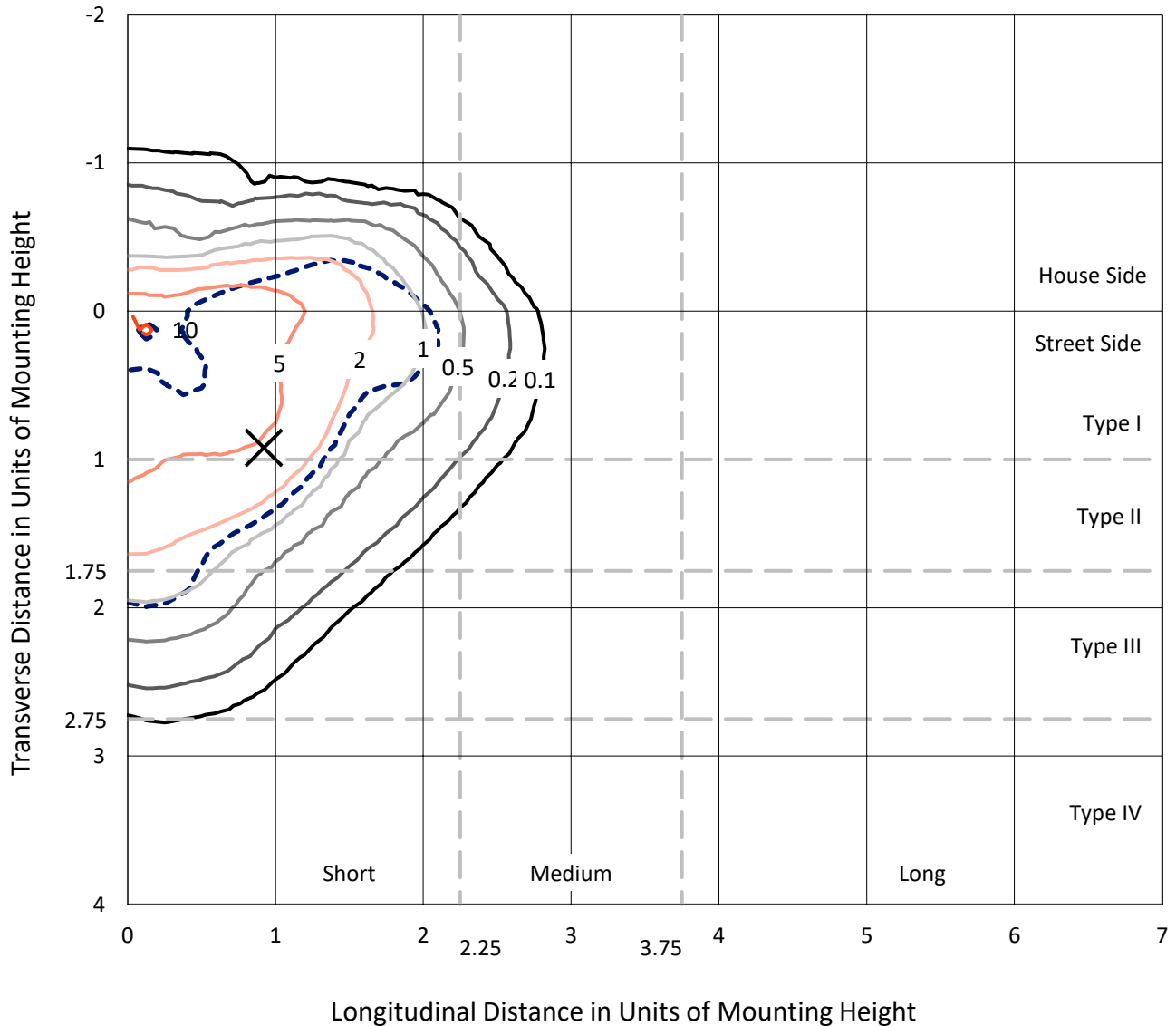
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

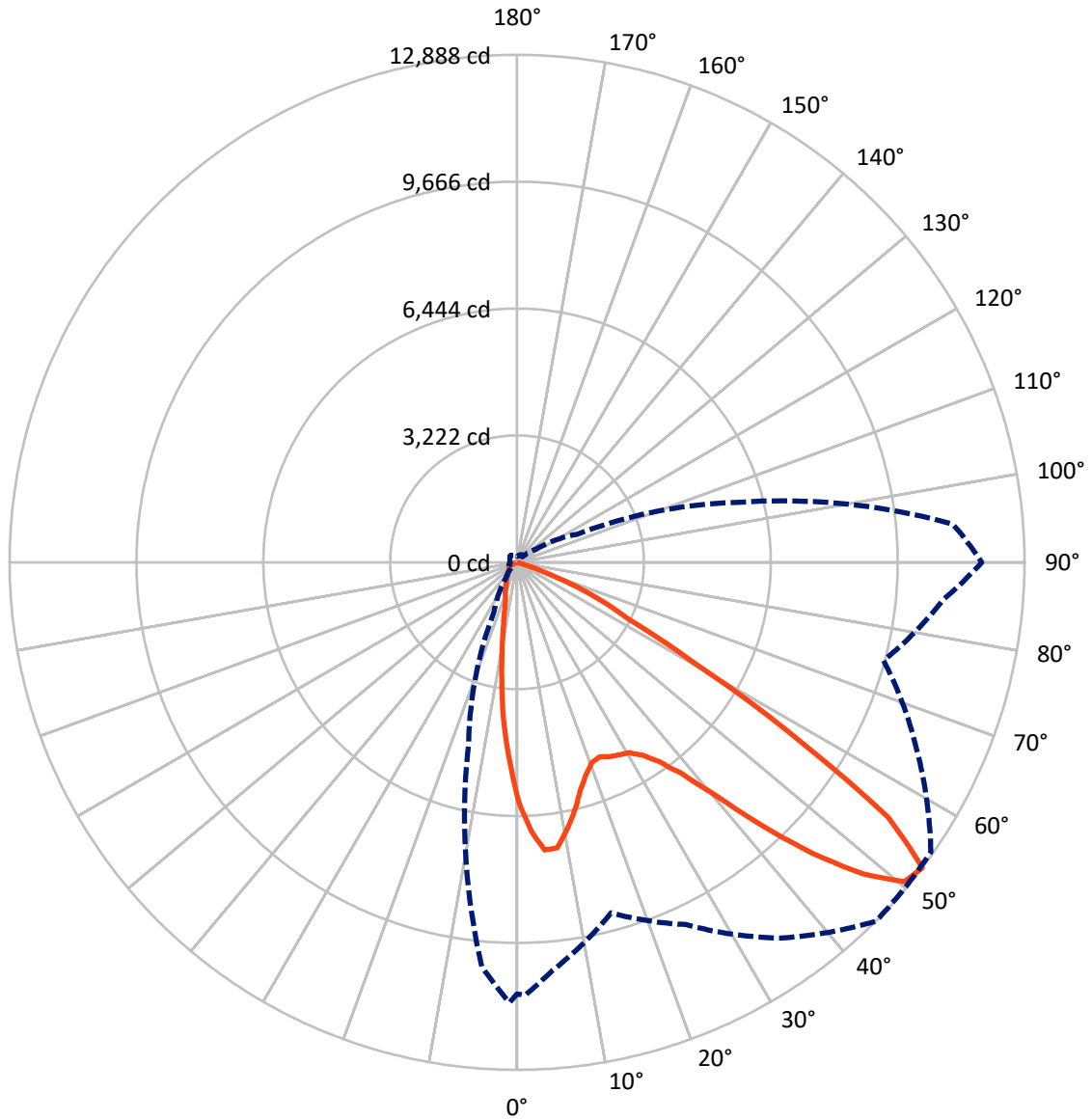
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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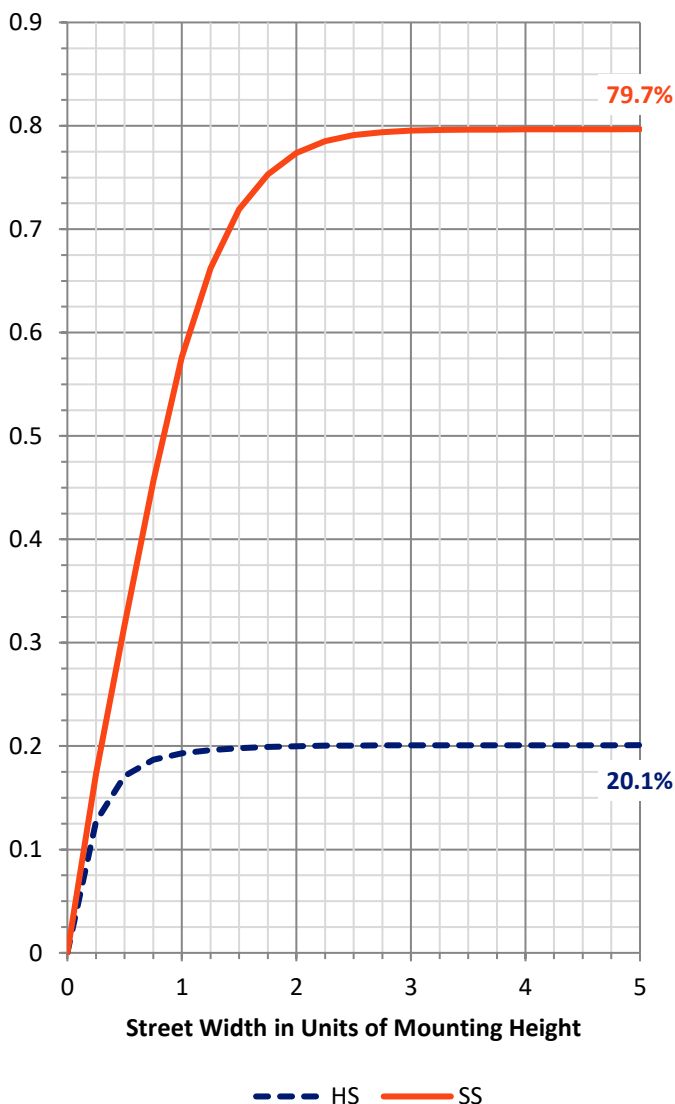
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2443.2	0.0	2443.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	9595.4	0.0	9595.4
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	12038.6	0.0	12038.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.2	3.7
10°-20°	878.3	7.3
20°-30°	1336.6	11.1
30°-40°	1997.7	16.6
40°-50°	2845.0	23.6
50°-60°	3058.2	25.4
60°-70°	1355.2	11.3
70°-80°	109.6	0.9
80°-90°	12.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12038.6	100.0
0°-180°	12038.6	100.0

**Coefficient of Utilization**

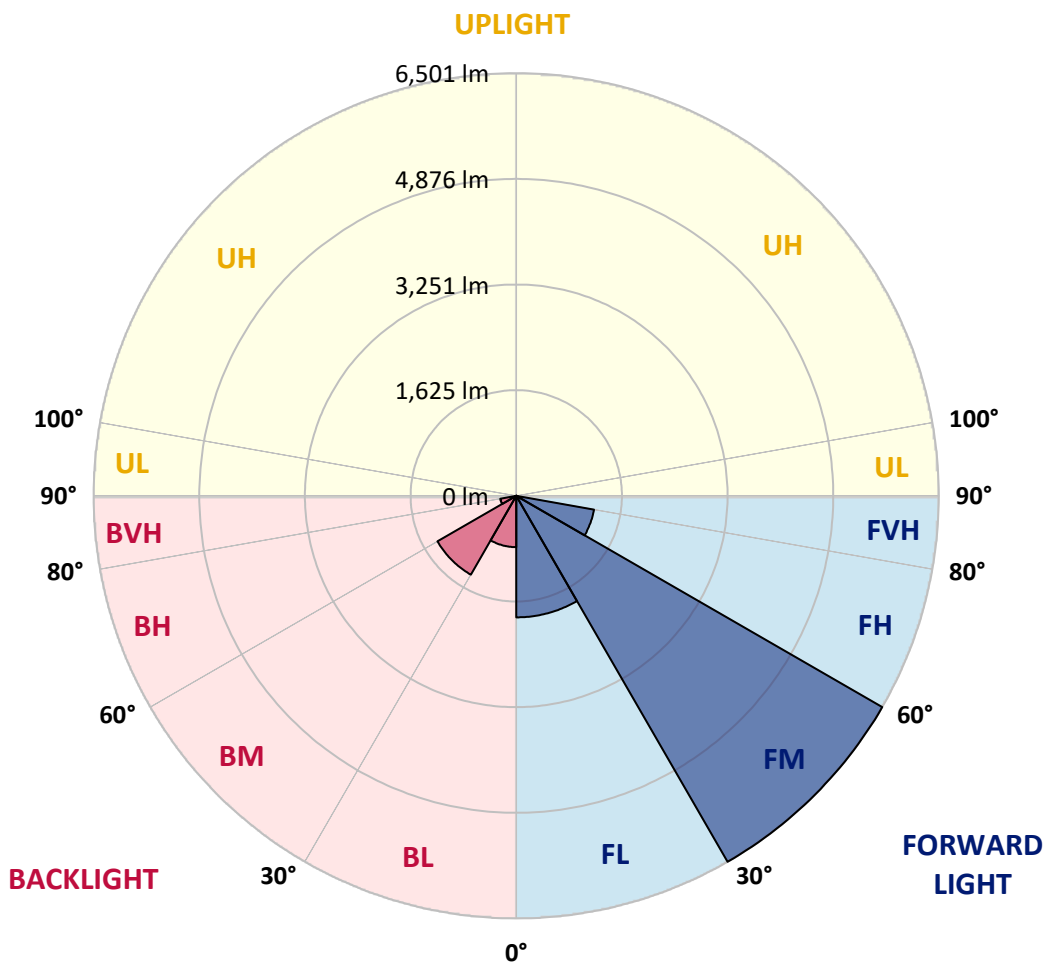


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1869.8	15.5			
FM (30°-60°)	6501.2	54.0			
FH (60°-80°)	1214.8	10.1			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	790.2	6.6	B2/1000		
BM (30°-60°)	1399.7	11.6	B2/2500		
BH (60°-80°)	250.0	2.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1
2.5°	6459.3	6478.2	6582.4	6712.7	6781.3	6937.6	6828.7	6857.1	6797.9	6589.6	6426.2
5°	6262.7	6260.4	6393.0	6715.0	7020.5	7330.7	7340.2	7174.4	6883.1	6563.5	6106.5
7.5°	5670.8	5763.2	5900.5	6414.3	6980.2	7212.3	7323.6	7129.4	6681.9	6224.9	5730.0
10°	5223.3	5270.7	5502.7	6123.1	6537.4	6847.6	6916.3	6805.0	6461.7	5891.1	5337.0
12.5°	4965.2	4988.9	5261.2	5782.1	6220.2	6449.8	6483.0	6535.1	6288.8	5753.7	5088.3
15°	4967.6	4986.5	5353.5	5789.2	5962.1	5900.5	6009.4	6007.1	6113.6	5727.6	5296.8
17.5°	5325.1	5346.5	5677.9	5893.4	5817.6	5673.2	5666.1	5775.0	6000.0	6052.0	5611.7
20°	5940.8	5990.5	6234.4	6222.5	5796.3	5505.1	5424.6	5507.5	6030.7	6326.7	6246.2
22.5°	6769.5	6838.2	7008.6	6681.9	5893.4	5391.4	5365.4	5526.4	6234.4	6940.0	6966.0
25°	7730.8	7846.8	7929.7	7510.6	6239.1	5588.0	5464.9	5741.9	6509.0	7605.3	7882.4
27.5°	8367.8	8488.5	8469.6	7870.5	6471.2	5640.0	5535.9	5794.0	6748.2	7764.0	8360.6
30°	8865.0	8938.4	9071.0	8064.7	6703.2	5786.8	5609.3	6014.1	6826.4	8038.6	8938.4
32.5°	9445.1	9494.8	9504.3	8408.0	7060.7	5971.5	5836.6	6288.8	7172.0	8301.4	9449.8
35°	10029.9	10103.4	9949.4	8831.8	7281.0	6314.9	6215.5	6764.7	7449.1	8573.8	10013.3
37.5°	10664.5	10702.4	10347.2	9007.0	7595.9	6873.6	6819.2	7278.5	7929.7	9066.2	10638.5
40°	11197.2	11232.8	10771.0	9222.5	7927.3	7655.1	7794.8	8258.8	8583.2	9385.9	10951.0
42.5°	11493.2	11576.1	10913.1	9104.1	8592.7	8540.6	9160.9	9324.4	9340.9	9475.9	11230.4
45°	11573.8	11535.9	10678.7	9201.2	9175.2	9996.8	10560.3	10775.8	10093.9	9641.6	11301.4
47.5°	11202.0	11251.7	10333.0	9116.0	9940.0	11100.2	11829.4	12229.6	10655.0	9497.2	11126.2
50°	10901.2	10837.3	10221.8	9054.4	10146.0	11621.1	12745.8	12835.7	11171.2	9674.7	10934.4
52.5°	10960.4	11000.7	10399.3	9217.8	10150.7	11651.8	12887.9	12826.2	11187.7	9634.5	10865.8
55°	11085.9	10908.4	10323.5	8857.8	9471.1	10792.3	11438.8	11344.0	10325.9	9206.0	10697.7
57.5°	9565.8	9840.5	9492.5	7908.4	7773.5	8131.0	8119.2	8410.4	7702.4	7922.6	9738.7
60°	7764.0	7811.3	7941.6	6764.7	5379.6	5256.5	5086.0	4901.3	5183.1	6774.2	8857.8
62.5°	6828.7	6771.9	7235.9	6153.8	3797.9	3179.9	3151.5	3265.2	3999.2	6461.7	8308.6
65°	4962.9	5033.9	5370.1	4775.8	2850.8	2427.0	2384.4	2720.6	3236.8	5178.4	6340.9
67.5°	3030.8	3168.1	3198.9	2945.5	1934.5	1536.7	1475.1	1780.5	2337.0	3350.4	3717.4
70°	1399.4	1565.1	1721.3	1607.7	1119.9	632.2	596.6	748.2	1179.1	1927.4	1972.4
72.5°	423.8	426.2	596.6	622.7	362.3	142.0	125.5	165.8	400.2	637.0	670.1
75°	30.8	33.1	80.5	92.3	68.7	35.5	37.9	45.0	85.3	142.0	106.6
77.5°	2.3	2.3	2.3	11.8	21.3	23.6	30.8	35.5	45.0	52.1	47.4
80°	2.3	0.0	2.3	9.5	16.6	23.6	28.4	33.1	35.5	40.2	35.5
82.5°	0.0	0.0	0.0	7.1	16.6	23.6	26.1	35.5	40.2	47.4	40.2
85°	0.0	0.0	0.0	7.1	16.6	26.1	23.6	11.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1
2.5°	6454.6	6362.3	6151.5	6044.9	5794.0	5758.4	5512.2	5471.9	5389.1	5344.1	5235.1
5°	5905.2	5794.0	5450.6	5161.8	4825.6	4591.1	4411.2	4247.8	4153.1	4065.5	4105.7
7.5°	5457.7	5133.3	4752.1	4269.1	3880.8	3629.8	3355.2	3130.2	2997.6	2907.7	2929.0
10°	4988.9	4778.2	4247.8	3705.5	3236.8	3059.2	2843.7	2670.9	2483.8	2322.8	2247.1
12.5°	4842.2	4529.6	3864.2	3312.6	2957.4	2784.5	2538.3	2339.4	2100.2	1903.7	1835.0
15°	4868.1	4567.5	3760.0	3170.4	2751.4	2453.1	2159.4	1913.2	1650.3	1513.0	1442.0
17.5°	5292.0	4771.1	3828.7	3021.3	2464.9	2050.5	1688.2	1375.7	1179.1	1037.1	1006.3
20°	5812.9	5211.5	3975.5	2912.4	2230.5	1631.4	1233.6	963.7	800.3	776.7	769.5
22.5°	6575.3	5931.3	4290.4	2839.0	1944.0	1271.5	845.3	700.9	655.8	651.1	653.5
25°	7640.8	6833.4	4633.7	2777.4	1728.5	980.2	691.4	594.3	580.1	573.0	584.8
27.5°	8102.6	7378.0	4816.1	2644.8	1531.9	883.1	681.9	589.6	549.4	537.5	544.6
30°	8673.2	7740.3	5102.6	2417.5	1243.1	726.9	637.0	641.7	622.7	563.5	544.6
32.5°	9430.8	8192.5	5247.0	2256.5	1110.5	601.4	466.4	428.5	478.3	487.7	504.3
35°	9916.3	8651.9	5320.4	2161.8	1041.9	513.8	395.4	359.9	348.0	350.5	359.9
37.5°	10818.4	9272.2	5412.7	2062.3	989.7	447.5	357.5	324.4	307.8	307.8	317.3
40°	11358.3	9764.7	5538.2	2007.8	937.6	407.2	324.4	296.0	281.8	281.8	286.5
42.5°	11493.2	10008.6	5495.6	1988.9	878.4	397.8	296.0	274.7	258.1	255.7	253.4
45°	11734.7	10380.4	5502.7	1967.6	816.9	362.3	279.4	255.7	232.1	229.7	227.3
47.5°	11999.9	10647.9	5516.9	1884.8	757.7	303.1	291.3	236.8	208.4	203.7	203.7
50°	11772.6	10861.0	5640.0	1801.9	681.9	246.3	286.5	222.6	184.7	177.6	179.9
52.5°	11801.1	11112.0	5900.5	1685.9	587.2	196.5	232.1	210.7	168.1	156.3	158.6
55°	11346.4	10846.8	5936.0	1562.7	459.4	151.5	177.6	184.7	142.0	137.3	137.3
57.5°	9767.1	9184.6	5237.6	1266.7	303.1	125.5	127.9	161.0	123.1	118.4	120.7
60°	8358.3	7373.3	4214.7	835.9	189.4	99.4	92.3	163.4	108.9	106.6	113.7
62.5°	7619.5	6059.2	3196.5	518.6	130.2	75.8	63.9	132.6	94.7	94.7	104.2
65°	5505.1	4070.2	1858.7	272.3	92.3	59.2	47.4	75.8	78.1	80.5	85.3
67.5°	3409.6	2055.2	783.7	132.6	61.5	40.2	30.8	47.4	52.1	52.1	56.8
70°	1683.5	819.3	260.4	75.8	47.4	33.1	21.3	26.1	26.1	23.6	26.1
72.5°	520.9	246.3	66.3	47.4	33.1	21.3	11.8	9.5	4.7	0.0	2.3
75°	59.2	47.4	42.6	33.1	21.3	9.5	2.3	0.0	0.0	0.0	0.0
77.5°	35.5	40.2	40.2	33.1	21.3	7.1	0.0	0.0	0.0	0.0	0.0
80°	28.4	30.8	33.1	30.8	18.9	9.5	0.0	0.0	0.0	0.0	0.0
82.5°	35.5	40.2	45.0	40.2	26.1	11.8	4.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.1	2.3	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1
2.5°	5190.2	5138.1	5211.5	5102.6	5100.2	5102.6	5071.8	5043.4	5088.3	5209.1	5221.0
5°	3961.3	4072.6	4108.1	4224.1	4160.2	4065.5	4084.4	4020.5	4176.8	4245.4	4191.0
7.5°	2883.9	2876.8	3116.0	3130.2	3161.0	3163.3	3158.6	3033.1	2905.2	2933.7	3018.9
10°	2237.6	2116.8	2232.8	2221.0	2296.8	2275.5	2306.2	2171.3	2216.3	2216.3	2270.7
12.5°	1823.2	1695.4	1674.1	1643.2	1674.1	1685.9	1697.7	1671.6	1747.4	1783.0	1820.8
15°	1392.3	1321.2	1302.3	1243.1	1252.6	1285.7	1314.1	1325.9	1302.3	1356.7	1361.5
17.5°	1011.0	1008.7	1020.5	1018.1	1008.7	1001.5	999.2	968.4	958.9	963.7	982.7
20°	767.2	786.1	826.4	866.6	887.9	861.8	826.4	774.2	752.9	757.7	760.1
22.5°	655.8	684.3	738.8	783.7	805.1	757.7	693.7	648.8	639.3	637.0	634.5
25°	594.3	627.5	667.7	681.9	679.6	651.1	603.8	584.8	580.1	575.3	554.1
27.5°	561.2	573.0	580.1	596.6	603.8	584.8	573.0	544.6	539.9	539.9	525.6
30°	542.2	535.1	544.6	532.8	542.2	528.0	530.4	530.4	518.6	523.3	523.3
32.5°	504.3	506.7	506.7	483.0	490.2	473.6	490.2	504.3	506.7	509.1	528.0
35°	369.3	412.0	433.3	433.3	440.4	428.5	426.2	409.6	388.3	367.0	357.5
37.5°	324.4	341.0	369.3	385.9	397.8	388.3	367.0	341.0	329.1	319.6	310.1
40°	288.8	303.1	322.0	341.0	364.6	352.8	319.6	307.8	293.6	293.6	284.2
42.5°	260.4	267.6	279.4	307.8	333.9	310.1	286.5	277.0	269.9	267.6	265.2
45°	234.4	236.8	248.6	272.3	303.1	279.4	255.7	243.9	246.3	248.6	246.3
47.5°	210.7	215.5	222.6	251.0	269.9	258.1	232.1	225.0	225.0	225.0	227.3
50°	182.3	194.2	208.4	232.1	246.3	239.1	217.8	208.4	203.7	203.7	206.0
52.5°	163.4	172.9	191.8	220.2	239.1	227.3	206.0	191.8	182.3	179.9	184.7
55°	142.0	158.6	189.4	210.7	236.8	225.0	201.2	184.7	168.1	165.8	165.8
57.5°	127.9	153.9	182.3	208.4	229.7	220.2	201.2	179.9	158.6	156.3	156.3
60°	120.7	149.2	177.6	201.2	229.7	215.5	198.9	175.2	151.5	151.5	149.2
62.5°	113.7	139.7	168.1	191.8	220.2	208.4	191.8	168.1	144.5	144.5	139.7
65°	94.7	120.7	139.7	161.0	191.8	179.9	163.4	146.8	127.9	123.1	125.5
67.5°	66.3	82.8	101.8	123.1	142.0	137.3	130.2	118.4	101.8	99.4	97.1
70°	33.1	45.0	61.5	82.8	99.4	94.7	90.0	80.5	71.0	68.7	68.7
72.5°	4.7	14.2	26.1	37.9	52.1	54.5	52.1	49.7	47.4	45.0	47.4
75°	0.0	0.0	0.0	9.5	21.3	26.1	30.8	35.5	35.5	30.8	37.9
77.5°	0.0	0.0	0.0	0.0	2.3	11.8	23.6	30.8	37.9	33.1	45.0
80°	0.0	0.0	0.0	0.0	2.3	14.2	23.6	33.1	37.9	33.1	47.4
82.5°	0.0	0.0	0.0	0.0	2.3	16.6	23.6	30.8	35.5	33.1	42.6
85°	0.0	0.0	0.0	0.0	7.1	14.2	9.5	4.7	2.3	2.3	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P646894

CATALOG NUMBER: GALN-SA4C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1	6104.1
2.5°	5287.3	5455.4	5635.3	5704.0	5917.1	6078.1	6187.0	6421.5	6456.9	6459.3
5°	4247.8	4333.0	4640.8	4785.3	5102.6	5348.8	5611.7	5990.5	6243.9	6262.7
7.5°	3018.9	3255.7	3385.9	3762.4	4153.1	4539.1	4929.7	5370.1	5663.8	5670.8
10°	2429.3	2583.3	2815.3	3097.1	3426.2	3819.2	4340.2	4851.6	5149.9	5223.3
12.5°	1955.8	2225.7	2490.9	2782.2	3033.1	3329.1	3890.3	4572.2	4818.4	4965.2
15°	1505.9	1752.2	2064.7	2405.7	2689.8	3085.3	3724.5	4503.5	4917.9	4967.6
17.5°	1110.5	1330.7	1619.6	1941.6	2367.8	2929.0	3752.9	4851.6	5242.3	5325.1
20°	798.0	925.8	1153.1	1527.2	2069.5	2746.6	3781.3	5204.4	5798.7	5940.8
22.5°	632.2	684.3	833.4	1164.9	1735.6	2554.9	3982.6	5879.2	6563.5	6769.5
25°	549.4	577.8	648.8	918.7	1524.8	2535.9	4304.6	6689.0	7581.6	7730.8
27.5°	530.4	535.1	596.6	842.9	1411.2	2410.4	4427.8	7264.4	8216.2	8367.8
30°	558.8	634.5	639.3	712.7	1200.5	2161.8	4491.7	7820.8	8753.7	8865.0
32.5°	483.0	459.4	475.9	551.7	1056.0	2017.3	4612.4	8306.1	9367.0	9445.1
35°	336.2	352.8	390.7	478.3	923.5	1865.8	4643.2	8841.3	9949.4	10029.9
37.5°	310.1	319.6	350.5	407.2	812.1	1780.5	4600.6	9232.0	10553.2	10664.5
40°	288.8	300.7	317.3	369.3	729.3	1685.9	4541.4	9584.8	10922.6	11197.2
42.5°	272.3	281.8	296.0	352.8	658.3	1591.1	4458.6	10082.0	11254.1	11493.2
45°	253.4	267.6	284.2	343.3	618.0	1527.2	4396.9	10051.2	11445.9	11573.8
47.5°	234.4	258.1	277.0	319.6	606.1	1496.5	4423.0	9935.3	11289.6	11202.0
50°	215.5	246.3	279.4	265.2	577.8	1434.8	4453.8	10093.9	10917.8	10901.2
52.5°	198.9	234.4	260.4	217.8	513.8	1375.7	4752.1	10302.2	11180.7	10960.4
55°	175.2	210.7	208.4	175.2	416.7	1330.7	4986.5	10306.9	11003.1	11085.9
57.5°	158.6	187.1	163.4	146.8	307.8	1112.9	4605.4	8642.4	9419.0	9565.8
60°	146.8	182.3	123.1	116.0	201.2	802.7	4020.5	6693.7	7486.9	7764.0
62.5°	135.0	172.9	97.1	94.7	139.7	570.7	3305.4	5602.2	6452.2	6828.7
65°	118.4	123.1	78.1	73.4	99.4	307.8	2012.6	3857.1	4823.2	4962.9
67.5°	97.1	94.7	63.9	59.2	66.3	149.2	887.9	1932.1	2796.3	3030.8
70°	78.1	78.1	54.5	47.4	47.4	68.7	232.1	769.5	1264.4	1399.4
72.5°	56.8	59.2	42.6	37.9	35.5	33.1	37.9	153.9	331.5	423.8
75°	49.7	52.1	42.6	33.1	26.1	21.3	16.6	14.2	18.9	30.8
77.5°	54.5	54.5	45.0	30.8	23.6	16.6	9.5	4.7	4.7	2.3
80°	68.7	71.0	59.2	40.2	28.4	18.9	11.8	4.7	2.3	2.3
82.5°	73.4	80.5	66.3	49.7	35.5	21.3	11.8	2.3	0.0	0.0
85°	18.9	30.8	52.1	45.0	35.5	21.3	11.8	2.3	0.0	0.0
87.5°	0.0	2.3	7.1	7.1	9.5	9.5	7.1	2.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)